


RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
REPORT OF PROPERTY AND WELL TRANSFER

Field or county Cat Canyon		District: 3 - SANTA MARIA	
Former owner Chevron U.S.A. Inc.		Opcode: C5640	Date: July 19, 2010
Name and location of well(s)			
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Sec. 4, T. 8N, R. 32W S.B. B&M "W.P. Hammon Fee B (NCT-2)" 13 (083-00451) Sec. 5, T. 8N, R. 32W S.B. B&M "W.P. Hammon Fee B (NCT-2)" (See attached list) Sec. 6, T. 8N, R. 32W S.B. B&M "Los Alamos" (See attached list) Sec. 7, T. 8N, R. 32W S.B. B&M "Los Alamos" (See attached list) Sec. 18, T. 8N, R. 32W S.B. B&M (Field Santa Barbara Co.) "Los Alamos" 200 (083-20412) Sec. 18, T. 9N, R. 32W S.B. B&M "Williams Holding Co." C.H. 1 & C.H.3 Sec. 30, T. 9N, R. 32W S.B. B&M "Fugler" (See attached list) Sec. 31, T. 9N, R. 32W S.B. B&M "Drumm", "D-WF", Gwinn Fee", "Los Alamos", "Williams Holding", "Williams Recruit" (See attached list)</p> </div> <div style="width: 48%;"> <p>Sec. 32, T. 9N, R. 32W S.B. B&M "W.P. Hammon Fee B (NCT-1)" 1 & 3 Sec. 1, T. 8N, R. 33W S.B. B&M "Los Alamos" (See attached list) Sec. 12, T. 9N, R. 33W S.B. B&M "G.W.P." (See attached list) Sec. 13, T. 9N, R. 33W S.B. B&M "G.W.P." (See attached list) "Standard" 1 (083-01397) Sec. 23, T. 9N, R. 33W S.B. B&M "G.W.P." (See attached list), "Palmer Stendel" 66-23 (083-01123) Sec. 24, T. 9N, R. 33W S.B. B&M "G.W.P." (See attached list), "GWP-RF", "Palmer Stendel" 1-24 (083-01151), "WH-GWP-RF" 408 (083-20843) Sec. 25, T. 9N, R. 33W S.B. B&M "G.W.P." 367-24 (083-22114)</p> </div> </div>			
SEE PAGE 2			
Description of the land upon which the well(s) is (are) located Cat Canyon Field, Santa Barbara County, CA			
Date of transfer, sale, assignment, conveyance, or exchange 4-29-2010	New Owner ERG Operating Company, LLC.	Operator code E0255	Type of Organization Corporation
	Address 600 Travis, Suite 7050 Houston, TX 77002		Telephone No. (713) 812-1800
Reported by ERG Operating Company, LLC			
Confirmed by Chevron U.S.A. Inc.			
New operator new status PA	Request Designation of Agent		
Old operator new status PA	Remarks Acquiring company has a blanket bond.		
Deputy Supervisor Patricia A. Abel		Signature 	

OPERATOR STATUS ABBREVIATIONS


	FORM AND RECORD CHECK LIST					
	Form or record	Initials	Date	Form or record	Initials	Date
PA - Producing Active						
NPA - No Potential Active						
PI - Potential Inactive	Form OGD121	CB	7/21/10	Map and Book	PA	
NPI - No Potential Inactive	Well records	CB	7/21/10	Lease Files	CB	7/21/10
Ab - Abandoned or No More Wells	New well cards			Well Stat	CB	
PAA:cb	Bond Status			District Computer Files	CB	7/21/10
cc: ERG Operating Co. LLC	Annual Report	CB	7/21/10			
Chevron U.S.A. Inc.						

Santa Barbara County
Cons. Committee - Transfer File - Harold Bertholf - Helen Jan

OGD156 (Modified 1/00)

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RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
REPORT OF PROPERTY AND WELL TRANSFER

Field or county Cat Canyon		District: 3 - SANTA MARIA	
Former owner Chevron U.S.A. Inc.		Opcode: C5640	Date: July 19, 2010
Name and location of well(s)			
<p>Sec. 1, T. 8N, R. 33W S.B. B&M "Climax" 1 (083-00380) Sec. 25, T. 9N, R. 33W S.B. B&M "GWP-RF" (See attached list) "Recruit Fee", "WH-F", "WH-GWP", "WH-RF", "Williams Holding", "Williams Holding Co." 1 (083-00729), "Williams Recruit" 2 & 3 (See attached list) Sec. 36, T. 9N, R. 33W S.B. B&M "D-WF" 382 (083-22180), "Los Alamos", "WF-LA" 704-36 (083-21126), "WH-LA" 308 (083-21003) "Williams Fee", "Williams Holding" 368-25 (083-22122)</p> <p>SEE ATTACHED LIST FOR LISTING OF ALL WELLS INCLUDED IN TRANSFER.</p>			
Description of the land upon which the well(s) is (are) located Cat Canyon Field, Santa Barbara County, CA			
Date of transfer, sale, assignment, conveyance, or exchange 4-29-2010	New Owner ERG Operating Company, LLC.	Operator code E0255	Type of Organization Corporation
	Address 600 Travis, Suite 7050 Houston, TX 77002		Telephone No. (713) 812-1800
Reported by ERG Operating Company, LLC.			
Confirmed by Chevron U.S.A. Inc.			
New operator new status PA	Request Designation of Agent		
Old operator new status PA	Remarks Acquiring company has a blanket bond.		
Deputy Supervisor Patricia A. Abel		Signature 	

OPERATOR STATUS ABBREVIATIONS

FORM AND RECORD CHECK LIST

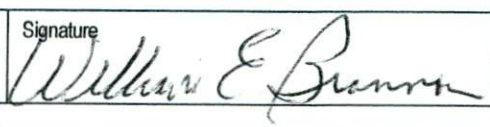
PA - Producing Active	FORM AND RECORD CHECK LIST					
NPA - No Potential Active	Form or record	Initials	Date	Form or record	Initials	Date
PI - Potential Inactive	Form OGD121	CB		Map and Book		
NPI - No Potential Inactive	Well records	CB		Lease Files	CB	
Ab - Abandoned or No More Wells	New well cards			Well Stat	CB	
PAA:cb	Bond Status			District Computer Files	CB	
cc: ERG Operating Co. LLC	Annual Report	CB				
Chevron U.S.A. Inc.						

Santa Barbara County
Cons. Committee - Transfer File - Harold Bertholf - Helen Jan

OGD156 (Modified 1/00)

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RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
REPORT OF PROPERTY AND WELL TRANSFER

Field or county See below		District: 3 - SANTA MARIA	
Former owner ChevronTexaco Exploration & Production Company		Opcode:	Date September 23, 2005
Name and location of well(s)			
All Wells			
Description of the land upon which the well(s) is (are) located			
All wells			
Date of transfer, sale, assignment, conveyance, or exchange 7-11-2005	New Owner Chevron U.S.A. Inc.	Operator code C5640	Type of Organization Corp.
	Address PO Box 1392 Bakersfield, CA 93302		Telephone No. (661) 654-7065
Reported by ChevronTexaco Exploration & Production Company			
Confirmed by Chevron U.S.A. Inc.			
New operator new status (status abbreviation) PA	Request Designation of Agent		
Old operator new status (status abbreviation) PA	Remarks THIS IS A NAME CHANGE ONLY Includes abandoned wells		
Deputy Supervisor William E. Brannon		Signature 	

OPERATOR STATUS ABBREVIATIONS

	FORM AND RECORD CHECK LIST					
	Form or record	Initials	Date	Form or record	Initials	Date
PA - Producing Active						
NPA - No Potential Active						
PI - Potential Inactive	Form OGD121	W	9/23/05	Map and Book	W	9/23/05
NPI - No Potential Inactive	Well records	W	9/23/05	Lease Files		
Ab - Abandoned or No More Wells	New well cards			Well Stat	W	9/23/05
WEB:hc	Bond Status	W	9/23/05	District Computer Files		
cc: ChevronTexaco E&P Co.						
Chevron U.S.A. Inc.						
Santa Barbara County						

Cons. Committee
Harold Bertholf

Transfer File
HQ

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
REPORT OF PROPERTY AND WELL TRANSFER

Field or county <u>Cat Canyon</u>		District 3 - SANTA MARIA	
Former owner <u>Texaco Exploration & Production Inc.</u>		Opcode: <u>T1600</u>	Date <u>November 22, 2002</u>
Name and location of well(s) <u>Sec. 24, T. 9N, R. 33W, SB B&M</u> All wells <u>Sec. 25, T. 9N, R. 33W, SB B&M</u> All Wells <u>Sec. 36, T. 9N, R. 33W, SB B&M</u> All Wells			
Description of the land upon which the well(s) is (are) located			
Date of transfer, sale, assignment, conveyance, or exchange <u>08-22-02</u>	New Owner <u>ChevronTexaco Exploration & Production Company</u>		Operator code <u>C5680</u>
	Address <u>5001 California Ave. Bakersfield, CA 93309</u>		Type of Organization Corp.
			Telephone No. <u>(661) 395-6445</u>
Reported by <u>Texaco Exploration & Production Inc.</u>			
Confirmed by <u>ChevronTexaco Exploration & Production Co.</u>			
New operator new status (status abbreviation) PA	Request Designation of Agent		
Old operator new status (status abbreviation) PA	Remarks		
		Deputy Supervisor <u>William E. Brannon</u>	Signature <i>William E. Brannon</i>

OPERATOR STATUS ABBREVIATIONS

	FORM AND RECORD CHECK LIST					
	Form or record	Initials	Date	Form or record	Initials	Date
PA - Producing Active						
NPA - No Potential Active						
PI - Potential Inactive	Form OGD121	DM	2/03	Map and Book	RA	1/03
NPI - No Potential Inactive	Well records	DM	2/03	Lease Files		
Ab - Abandoned or No More Wells	New well cards	DM	2/03	Well Stat	HQ	11/02
WEB:hc	Bond Status	HQ	11/02	District Computer Files		
cc: Cons. Committee						
Harold Berthoff						

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
(805) 937-7246

REPORT OF WELL ABANDONMENT

Santa Maria, California
September 19, 1994

R. A. Baumgartner, Agent
Texaco Exp. & Prod. Inc.
Star Route, Box 42
San Ardo, CA 93450

Your report of abandonment of well "Los Alamos" 20,
A.P.I. No. 083-00350, Section 36, T. 9N, R. 33W, S.B. B. & M.,
Cat Canyon field, Santa Barbara County,
dated 8-20-94, received 9-15-94, has been examined in
conjunction with records filed in this office. We have determined that
all of the requirements of this Division have been fulfilled relative to
plugging and abandonment of the well, removal of well equipment and junk,
and the filing of well records.

NOTES: 1. Surface plugging completed on 8-2-94.
2. Site inspection made and approved 9-14-94.

RB:dj

cc: Update
Conservation Committee

William F. Guerard, Jr.
State Oil and Gas Supervisor

By William E. Brannon
William E. Brannon
Deputy Supervisor

COMPANY TEPI WELL NO. "LOS ALAMOS" 20
API NO. 083-00350 SEC. 36, T. 9N, R. 33W, SB B.&M.
COUNTY SANTA BARBARA FIELD CAT CANYON

STATUS

Well Summary (Form OG100) 9-15-93
History (form OG103) 9-15-93
Directional Survey _____
Core Record and/or SWS _____
Other: _____
Electric logs: _____

abel-oil 8/2/93
(Date)

Engineer's Check List

✓ Summary, History, & Core Record
 Directional Survey
 Logs
 ✓ Operator's Name
 ✓ Signature
 ✓ Well Designation
 ✓ Location_____

✓ Notices
✓ "T" Reports
✓ Casing Record
✓ Plugs
✓ Env. Insp. Date 9-14-94
Production/Injection
E Well on Prod., enter EDP
Computer

Clerical Check List

Form OGD121
 _____ Location change (OG165) _____
 _____ Elevation change (GD165) _____
 ✓ _____ Final Letter (OG159) _____
 _____ Release of Bond (OGD150) _____
 _____ Abd _____ in EDP _____
 _____ Notice of Records Due (OGD170) _____
 _____ Request: _____

_____ Map Work: _____

_____ Follow Up: _____

✓ Hold for: Surface inspection

7/94 sfc restoration not approved.
Junk on location.

9/14/94 sfc restoration approved

Records Approved 9/16/93 RB

CHANGE OF WELL STATUS REPORT

SECTION 36	TOWNSHIP 9N	RANGE 33W	B & M SB	LOCATION 4290' along property line & 990' E at right angles from NW corner Los Alamos ranch
DISTRICT San Ardo		AREA Santa Maria		LEASE & WELL Los Alamos 20
COUNTY AND STATE Santa Barbara Ca			OPERATOR Texaco Expl. & Prod. Inc.	GOC FILE NO. GOC WORKING INT.

TYPE OF WELL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS	TYPE OF COMPLETION <input checked="" type="checkbox"/> SINGLE <input type="checkbox"/> MULTIPLE	OTHER PRODUCING WELLS ON LEASE OR UNIT <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/>
--	--	---	--

DATE OF CHANGE 8-2-93	REASON FOR STATUS CHANGE	METHOD OF COMPLETION
<input type="checkbox"/> OIL COMPLETION (FIRST FORMATION OIL PRODUCED) <input type="checkbox"/> GAS COMPLETION <input type="checkbox"/> RE-COMPLETION <input type="checkbox"/> INITIAL PRODUCTION		<input type="checkbox"/> PUMP <input type="checkbox"/> GAS LIFT <input type="checkbox"/> FLOW <input type="checkbox"/> INJECTION
<input type="checkbox"/> RESUMPTION OF PRODUCTION <input type="checkbox"/> CESSATION OF PRODUCTION <input type="checkbox"/> IDLE <input checked="" type="checkbox"/> PLUGGED & ABANDONED		WATER _____ GAS _____

WELL DATA				PRODUCTION TEST DATA								
PRODUCING ZONE	PERFS. (sl, gp, ip)	PRODUCTION INTERVAL		BOPD	GAS MCFPD	CHOKE /64''	TP	CP	TRAP PRESSURE	GOR OR CONDENSATE YIELD	CUT	API GRAVITY
		FROM	TO									
Miocene	sl	5291'	5900'									

IF CHANGE OF STATUS IS DUE TO CESSATION OF PRODUCTION, WHAT ARE THE PLANS TO RESTORE PRODUCTION, AND ON WHAT DATE IS PRODUCTION EXPECTED TO BE RESTORED?



REASON FOR PLUG & ABANDONMENT: Casing damage

MAP NO.	MAP LETTER	BOND NO.	114	121
				9-15-93 KA

TOTAL DEPTH: 5900' PLUGGED DEPTH: _____ GROUND ELEVATION: 1170' POINT OF DEPTH MEASUREMENT _____ FT. ABOVE GROUND

SIZE OF CASING (A.P.I.)	DEPTH OF SHOE	TOP OF CASING	WEIGHT OF CASING	NEW OR SECOND HAND	GRADE	SIZE OF HOLE DRILLED	NUMBER OF SACKS CEMENT	W S O DEPTS	CASING PACKER DEPTHS (IF ANY)
11-3/4"	315'		60#	ABANDONED	CASING C-45	15-1/8"			
7"	5305'		24#		H-40	10-5/8"			
5 1/2"	5900'	5260'	15.5#		C-45	10-5/8"			

JUNK:

REMARKS:	TITLE	DATE
SUBMITTED BY: <i>W.A. Baumgartner</i>	Area Manager/Agent	August 20, 1993

DISTRIBUTION: DISTRICT PRODUCTION MANAGER, DIVISION PRODUCTION MANAGER, DIVISION EXPLORATION MANAGER, PRODUCTION ACCOUNTING, LEASE RECORDS-PRODUCING PROPERTIES, DIVISION OF OIL & GAS (COMPLETIONS, RECOMPLETIONS AND ABANDONMENTS ONLY), CONSERVATION COMMITTEE OF CALIFORNIA OIL PRODUCERS (COMPLETIONS AND RECOMPLETIONS ONLY).

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SUBMIT IN DUPLICATE
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Texaco Exploration & Production Inc Field Cat Canyon County Santa Barbara
Well Los Alamos 20, Sec. 36, T. 9N, R. 33W, SB. B. & M.
A.P.I. No. 083-00350 Name R.A. Baumgartner Title Agent
Date August 20,, 19 93 (Person submitting report) (President, Secretary or Agent)

Signature R.A. Baumgartner

Star Route 42, San Ardo CA 93450

(408) 627-2571

(Address)

(Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date

1993

7-7 Halliburton coil tubing unit moved in. Ran in hole and circulated with water. Tagged liner top at 5282 ft. Tried several times but could not get through liner top. Pulled out of hole. Tried another size bullet but still could not get past liner top. Pulled out of hole. Rigged down and moved out.

7-9 Rigged up coil tubing unit. Ran in hole but tagged at wellhead. Found taper inside of wellhead that would not allow 2-1/2" tool to pass. Another wellhead flange could not be found. Texaco representative released coil tubing unit. Rigged down and moved out.

7-27 Pool Well Servicing Company hoist # 363 moved in and rigged up. Removed well flange. Installed adapter spool, xo spool, mechanical gate, work platform and tubing equipment. Closed well in till a.m.

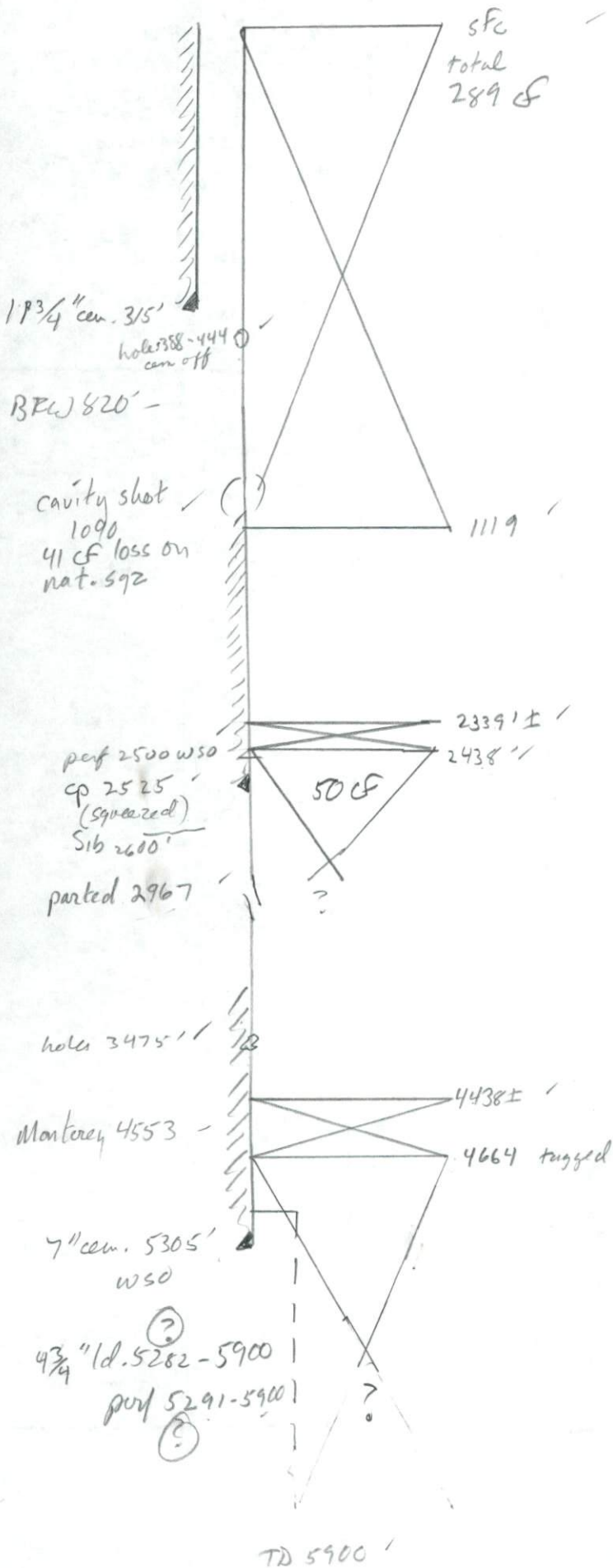
7-28 Ran in hole with 6" impression block and tagged unexpected bad spot at 2962 ft. Pulled out of hole with tubing and impression block which had a picture of parted/shifted casing and an opening of ID 3-1/2". Ran in hole with 20 jts. of macaroni tubing and 149 jts. of tubing from derrick. Tagged liner top at 5282 ft. but could not get through same. Rigged up Guiberson and circulating pump. Circulated on liner top, rotated and repositioned for 1-1/2 hours, but would not go through. Pulled out of hole to 4991 ft. Closed well in till a.m.

7-29 Pulled out of hole from 4991 ft. Laid down 20 jts. of 1-1/4" macaroni tubing. Ran in hole with tubing to 5267 ft. Pumped and filled hole with 45 bbls. of lease water. Rigged up Halliburton cementers. Pumped 115 cuft of 50/50 Pozmix A cement with 2% bentonite and 2% CaCl₂. Displaced cement to 4762 ft. Pulled out

7-29 of hole with 17 jts. to 4736 ft. Pumped 115 cuft. of cement mixture and displaced to 4216 ft. with 137 cuft of fresh water. Pulled out of hole with 18 jts. to 4175 ft. Attempted to squeeze. Pumped 11 bbls. of fresh water with no returns. Pulled out of hole with tubing. Closed well in and waited on cement till a.m. Division of Oil & Gas representative witnessed the laying of the cement plug.

7-30 Ran in hole with tubing and tagged cement at 4664 ft. Pulled and laid down 18 jts. of tubing. Ran in hole with tubing out of derrick to 4660 ft. Halliburton pumped 50 cuft of 50/50 Pozmix A cement with 2% bentonite and 2% CaCl₂. Displaced cement to 4434 ft. with 144 cuft of fresh water. Pulled and laid down 9 jts. of tubing to 4394 ft. Halliburton pumped 405 cuft of 70# mud and displaced mud to 2600 ft. with 85 cuft of fresh water. Pulled and laid down 58 jts. to 2583 ft. Halliburton pumped 50 cuft of cement mixture and displaced down to 2357 ft. with 76 cuft of fresh water. Pulled out of hole with tubing. Closed well in and waited on cement till 8-2 a.m. Division of Oil and Gas representative witnessed the cementing and mudding operations.

8-2 Ran in hole with tubing and tagged cement at 2438 ft. Rigged up Halliburton and pumped 11 cuft of 50/50 Pozmix A cement with 2% bentonite and 2% CaCl₂ to top plug off. Displaced to 2382 ft. with 13 bbls. of fresh water. Pulled out of hole and laid down 4 jts. to 2336 ft. Halliburton pumped 273 cuft of 70# mud and displaced to 1100 ft. with 35 cuft of fresh water. Pulled out of hole with 18 stands and laid down 39 jts. Rigged up MMI. Floated in hole to 1090 ft. and made cavity shot. Pulled out of hole. Ran in hole with tubing to 1119 ft. Halliburton pumped 121.5 cuft of cement mixture and displaced cement to 569 ft. Pulled out of hole with 18 jts. to 569 ft. Halliburton pumped 145.5 cuft cement mixture to surface. Pulled and laid down 18 jts. Removed tubing equipment, work platform, BOPE. Halliburton pumped 22.5 cuft cement to top off casing. Loaded out circulating pit and equipment. Installed well flange. Division of Oil and Gas representative witnessed the above cementing operations. Rigged down and moved out.



RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
(805) 937-7246

No. T 393-176

REPORT ON OPERATIONS

R. A. Baumgartner, Agent

Texaco E&P Inc.

Star Route, Box 42

San Ardo, CA 93450

Santa Maria, California

August 4, 1993

Your operations at well "Los Alamos" 20 API No. 083-00350,
Sec. 36, T. 9N, R. 33W, SB B.&M. Cat Canyon Field, in Santa Barbara
County were witnessed on 8-02-93, by R. A. Brunetti, representative of
the supervisor, was present from 0845 to 1300. There were also
present J Lloyd -Drilling Foreman.

Present condition of well: 11-3/4" cem. 315'; 7" cem. 5305' W.S.O., c.p. @
2525', perf. 2500' W.S.O., holes 388'-444' (cem. off), parted at 2967', holes
at 3475', cavity shot at 1090' (cem. sqz.); 4-3/4" ld. 5282'(?)-5900', perfs.
5291'-5900', bad at 5282'. T.D. 5900'. Plugged w/230 cf. cem. below 4664',
w/cem. 4664'-4438'±, w/50 cf cem. below 2438', w/cem. 2438'-2339± and w/cem.
1119'-5'.

The operations were performed for the purpose of plugging the well in the
process of abandonment.

DECISION: THE PLUGGING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

Deficiencies corrected: Monterey zone and parted casing plugs low.

RAB:ks

cc: Deficiency File

William F. Guerard, Jr.
Acting State Oil and Gas Supervisor

By William E. Brannon
Deputy Supervisor

OG109

**DIVISION OF OIL AND GAS
Cementing/Plugging Memo**

1393, 170 cu

Operator TEPI Well No. "Los Alamos" 20
 API No. 083-00350 Sec. 36, T. 9N, R. 33W, SB B&M
 Field East Canyon, County Santa Barbara. On August 2, 1993
 Mr. MS. R. Bonetti, representative of the supervisor, was present from 0845 to 1300.
 There were also present J. Lloyd, Rick Foran perf. 2500' wso,

Casing record of well: 11 7/8" cem. 315'; 7" cem. 5305', 1050, c.p. @ 2525' holes 388'-444' (cem d/l),
 parted @ 2967', holes @ 3475'; 4 3/4" id. 5282' (?) - 5900', perf/s 5291'-5900', bad @ 5282'.
 T.D. 5900'. Plugged w/ 230 cf cem. below 4664' w/cem. 4664'-4438' ±, w/ 50 cf cem.
 The operations were performed for the purpose of (1) - abandonment // below 2438' w/
cem. 2438' - 2339' ±, & w/cem 1119' - 5'.

- ☒ The plugging/cementing operations as witnessed and reported are approved.
☐ The location and hardness of the cement plug @ _____' is approved.

Hole size: _____" fr. _____' to _____', _____" to _____' & _____" to _____'

Deficiencies corrected: Monterey zone and parted casing plugs low.

Casing				Cemented			Top of Fill		Squeezed Away	Final Press.	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

7" casing parted @ 2967

310 8/7/93

Casing/tubing recovered: 7" " shot/cut at 1090', _____', _____' pulled fr. _____';
 _____" shot/cut at _____', _____', _____' pulled fr. _____'.

Junk (in hole): _____

Hole fluid (bailed to) at _____'. Witnessed by _____

Mudding	Date	Bbls.	Displaced	Poured	Fill	Engr.
① Reconditioned	7/29	72	F/4394		2608 ±	RS
	8/2	49	F/2336			

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Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt./Sample	Date & Time	Engr.
7/29	230 cf	H @ 5282 ②	1150	RS	4664 ③	6m #	7/30/0925	RS
7/30	30 cf	H @ 4660	1000	RS	4438 ±	calc		
7/30	50 cf	H @ 2583	Rep't by J. Lloyd		2438 ④	all wt	8/2/93 0855	RS
8/2	11 cf	H @ 2432	0920	RS	2339 ±			
8/2	⑤ 289 cf	total F/1119	1300	RS	sfc	visual	Topped off on 8/9/93 fr 17' to sfc w/ 4cf "c"	

- ① checked mud in Pool mixing pit on Spring Canyon Rd. on 7/29: 70# weight, good gel str.
 ② Placed in 2 115 cf stages, good fluid returns. Pulled out of cement - pumped 10.8 bbls H₂O w/ no returns.
 OGD10 (9/91/GSR1/5M) Did not try to bradenhead. 50-50 poz m w/ 1/2% gel.
 ③ loss = 93 cf ± ⑤ 121 cf @ 1119; 146 cf @ 559, 22 cf sfc pour; loss = 41 cf
 ④ loss = 32 cf

3

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. P 393-337
Field Code ---
Area Code --
New Pool Code --
Old Pool Code --

PERMIT TO CONDUCT WELL OPERATIONS

R. A. Baumgartner, Agent
Texaco Exp. & Prod. Inc.
Star Route, Box 42
San Ardo, CA 93450

Santa Maria, California
February 11, 1993

Your proposal to abandon well "Los Alamos" 20,
A.P.I. No. 083-00350, Section 36, T. 9N, R. 33W, SB B.&M.,
Cat Canyon field, area, pool,
Santa Barbara County, dated 1-27-93, received 2-10-93, has been
examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
2. Blowout prevention equipment conforming to Class II 2M requirements is installed and maintained in operating condition at all times.
3. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of 70 lbs./cu. ft. and a minimum gel-shear strength (10 min.) of 20 lbs./100 sq. ft.
4. THIS DIVISION IS NOTIFIED:
 - a. To witness the location and hardness of the cement plug at 4460'.
 - b. To witness the mudding of the well.
 - c. To witness the location and hardness of the cement plug at 2400'.
 - d. To witness the placing of the cement plug from 1100' to the surface.
 - e. To inspect and approve the cleanup of the well site before approval of abandonment will be issued.

4/28: John W/Pool Co./JC - Unable to Run 2 7/8" Tbg, Thru Liner Top @ 5282'. Ran 2 5/8" bailer to 5390' & Lost Bottom Section of Bailer. Try & recover fish & finish cleaning out. If unable to recover bailer, call back for program change.

4/29 - John Lloyd/JC - Recovered Fish - Suspect bad pipe @ 5282', ok to plug bottom from 5390'.

Blanket Bond

AJK:ks

Engineer Al Koller
Phone (805) 937-7246

7/28/93 - W. Dailey/JC - Ran I.B. - Stopped ± 2000' above liner top. Impression
was parked csq.
Will Run 1 1/4" stringer &
Try & work into liner.
If unable to get into liner, they
plug @ Liner Top & Attempt On. Squeeze?

William F. Guerard, Jr.
Acting State Oil and Gas Supervisor

BY William E. Brannan
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG111

7/29: 1 1/2" wouldn't go in liner. Decided to cement @ liner top & bradenhead (see Treport memo)

35

DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well

ae
OG

DIVISION OF OIL AND GAS

FOR DIVISION USE ONLY		
CARDS	BOND	FORMS
		OGD114 OGD121
	<i>Blanket</i>	<i>2-10-93</i>

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon well LOS ALAMOS 20, API No. 083-00350, Sec. 36, T. 9N, R. 33W, S.B.B. & M., Cat Canyon Field, Santa Barbara County, commencing work on March, 19 93

The present condition of the well is:

- Total depth 5900'
- Complete casing record, including plugs and perforations (present hole)
11-3/4" 60# 0 - 315'
7" 23# 0 - 5305' *holes 2967' & 3475'*
5-1/2" 15.5# 5282' - 5900' *holes 388'-444' (cen. off), 2525', perf 2500' w/50,*
Perfs. 5307'-5900' 180M, 2"S, 6"C, 12R
- Last produced 9/73 0 189
(Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)
- or
- Last injected _____
(Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

Additional data for dry hole (show depths):

5. Oil or gas shows

6. Stratigraphic markers

7. Formation and age at total depth

8. Base of fresh water sands 1040' ±



9. Is this a critical well according to the definition on the reverse side of this form? ☐ Yes ☒ No

The proposed work is as follows:

- Install Class II 2M BOP
- Clean out fill to 5900'. Pump abandonment mud from 5900' to 5405'
- Lay cement plug from 5405' to 4460'. Tag cement
- Pump abandonment mud from 4460' to 2600'
- Lay a cement plug from 2600' to 2400'. Tag cement
- Pump abandonment mud to 1100'
- Shoot a cavity shot at 1090'
- Lay a cement plug from 1100' to surface. Squeeze 50 cuft cement into cavity shot at 1090'. Fill all annuli at surface with cement
- Cut off casing 5' below ground level. Weld on steel plate with well number, Section, Township and Range. Clean location for DOG final approval

It is understood that if changes in this plan become necessary, we are to notify you immediately.

Address Star Route Box 42
(Street)
San Ardo CA 93450
(City) (State) (Zip)
Telephone Number (408) 627-2571
(Area Code) (Number)

Texaco Exploration & Production Inc
(Name of Operator)
By R.A. Baumgartner
(Print Name)
R.A. Baumgartner
(Signature)
1-27-93
(Date)

34

DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

301 WEST CHURCH STREET
SANTA MARIA, CALIFORNIA 93454
(805) 925-2686



February 1, 1989

G. Oviatt, Agent
Texaco Producing Inc.
P. O. Box 811
Ventura, CA 93002

Water Disposal Project
Cat Canyon Field
West Area
Monterey Fm.
"Los Alamos" 20, 26, 27
& 162

Dear Mr. Oviatt:

A requirement of the Division of Oil and Gas for the wells listed above is to conduct biennial injection profile surveys to confirm that injected fluid is confined to the approved zone. These wells have not been surveyed for more than two years and have been idle for at least 2 years.

Because the casing and/or tubing can deteriorate while wells remain idle, approval to utilize these wells for injection is terminated as of this date. Injection lines to well "Los Alamos" 26 must be disconnected and the well properly shut in by March 3, 1989. The other wells have been disconnected previously.

To reactivate the well, it will be necessary to submit a Notice of Intention to Rework Well (form OG107) for each well. Our response will specify requirements to be fulfilled before injection can resume.

Yours truly,

10/28/88 PT
lines disconnected

Hal Bopp
Hal Bopp
Deputy Supervisor

AJK:mjn

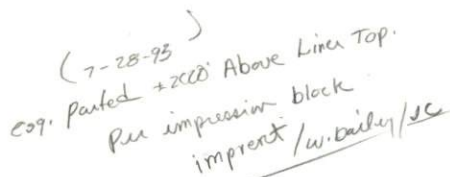
cc: Project File
Well Files

SONIC FLUID
LEVEL SUMMARY

COMPANY : TEXACO
AREA : CAT C.

DATE	WELL #	FOP	BFW	F LEVEL	CP	COMMENT
1/6/89	LOS ALAMOS 63	0	1100	1395	1	STATIC TEST
1/6/89	LOS ALAMOS 66	0	1100	1302	1	STATIC TEST
1/6/89	LOS ALAMOS 93	0	960	465	50	TBG MASKS ACTUAL F.L.?
1/6/89	LOS ALAMOS 73	0	1130	310	0	TBG MASKED ACTUAL F.L.?
1/6/89	LOS ALAMOS 90	0	970	1705	0	STATIC TEST
1/6/89	LOS ALAMOS 72	0	950	1829	130	STATIC TEST
1/6/89	LOS ALAMOS 94	0	980	248	165	INCONCLUSIVE-TBG MASK F.L
1/6/89	LOS ALAMOS 106	0	1120	124	1	STATIC TEST
1/6/89	LOS ALAMOS 88	0	1100	961	0	STATIC TEST
1/6/89	LOS ALAMOS 20	0	1100	868	12	STATIC TEST
1/6/89	LOS ALAMOS 23	0	1060	2852	10	STATIC TEST
1/6/89	LOS ALAMOS 64	0	1060	1840	10	STATIC TEST
1/6/89	LOS ALAMOS 8-X	0	1120	2232	600	STATIC TEST
1/6/89	LOS ALAMOS 28	0	1000	80	5	QUESTIONABLE?
1/6/89	LOS ALAMOS 19	0	1080	930	50	STATIC TEST
1/6/89	LOS ALAMOS 27	0	920	3069	75	STATIC TEST
1/6/89	LOS ALAMOS 68	0	850	93	1	STATIC TEST
1/6/89	LOS ALAMOS 104	0	650	310	75	STATIC TEST
1/6/89	LOS ALAMOS 158	0	750	0	140	OIL TO SURFACE
1/6/89	LOS ALAMOS 157	0	980	2760	170	STATIC TEST
1/6/89	LOS ALAMOS 29	0	1160	217	4	STATIC TEST
1/6/89	LOS ALAMOS 31	0	1020	605	12	STATIC TEST
1/6/89	LOS ALAMOS 100	0	710	527	4	STATIC TEST
1/6/89	LOS ALAMOS 44	0	770	0	30	OIL TO SURFACE
1/6/89	LOS ALAMOS 103	0	660	589	480	STATIC TEST
1/6/89	LOS ALAMOS 52	0	760	0	80	OIL TO SURFACE
1/6/89	LOS ALAMOS 49	0	750	961	235	STATIC TEST
1/6/89	LOS ALAMOS 55	0	770	682	5	STATIC TEST
1/6/89	LOS ALAMOS 53	0	765	0	155	OIL TO SURFACE
1/6/89	LOS ALAMOS W.D.1	0	750	0	310	OIL TO SURFACE
1/6/89	LOS ALAMOS 39	0	690	496	1	STATIC TEST
1/6/89	LOS ALAMOS 71	0	910	31	60	STATIC TEST
1/6/89	LOS ALAMOS 155	0	780	620	35	STATIC
1/6/89	LOS ALAMOS 150	0	740	1612	25	STATIC TEST
1/6/89	LOS ALAMOS 1-7	0	950	0	170	OIL TO SURFACE

Betty
"Los Alamos" 20



190 ~~5x~~
3.35 ~~10/50~~

637 ft of fill

2525
637

1888

487 34
3.35 6 1/2

1631 ft of bill

$$\begin{array}{r} 5305 \\ 1631 \\ \hline 3671 \end{array}$$

~~Notes: proposed operations
\$206,895 in cell, notice dated
7/5/89~~

DIVISION OF OIL AND GAS

CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company Getty Oil Company Well No. "Los Alamos" 20
 API No. 083-00350 Sec. 36, T. 9N, R. 33W, S.B. B.&M.
 County Santa Barbara Field Cat Canyon

<u>RECORDS RECEIVED</u>	<u>DATE</u>
Well Summary (Form OGI00)	<u>7-21-83</u> ✓
History (Form OGI03)	<u>7-21-83</u> ✓
Core Record (Form OGI01)	
Directional Survey	
Sidewall Samples	
Other	
Date final records received	
Electric logs:	

<u>STATUS</u>	<u>STATUS</u>
Producing - Oil	<u>Water Disposal</u>
Idle - Oil	<u>Water Flood</u>
Abandoned - Oil	<u>Steam Flood</u>
Drilling - Idle	<u>Fire Flood</u>
Abandoned - Dry Hole	<u>Air Injection</u>
Producing - Gas	<u>Gas Injection</u>
Idle - Gas	<u>CO₂ Injection</u>
Abandoned - Gas	<u>LPG Injection</u>
Gas-Open to Oil Zone	<u>Observation</u>
Water Flood Source	
DATE	
RECOMPLETED	<u>11-1-82</u>
REMARKS	<u>unsuccessful attempt to convert to W.D.</u>

ENGINEER'S CHECK LIST

- Summary, History, & Core record (dupl.) ✓
- Electric Log
- Operator's Name
- Signature
- Well Designation
- Location
- Elevation
- Notices
- "T" Reports
- Casing Record ✓
- Plugs
- Surface Inspection
- Production
- E Well on Prod. Dir. Sur.

CLERICAL CHECK LIST

- Location change (F-OGD165)
- Elevation change (F-OGD165)
- Form OGD121
- Form OGI59 (Final Letter)
- Form OGD150b (Release of Bond)
- Duplicate logs to archives
- Notice of Records due (F-OGD170)

Hold for Status
(Apr. 85) 61

RECORDS NOT APPROVED
 Reason: If no prod. or injection
in 2 years add to idle well
list - Damaged casing OK

RECORDS APPROVED ✓ DC
RELEASE BOND
 Date Eligible _____
 (Use date last needed records were received.)
MAP AND MAP BOOK _____

Getty Oil Company

RANGE OF WELL STATUS REPO

SECTION 36	TOWNSHIP 9N	RANGE 33W	B & M SB	LOCATION 4290'S along property line & 990'E at right angles from NW corner Los Alamos ranch.
DISTRICT Ventura		AREA Santa Maria	LEASE & WELL Los Alamos 20	FIELD Cat Canyon
COUNTY AND STATE Santa Barbara, California			OPERATOR Getty Oil Company	GOC FILE NO. GOC WORKING INT.

TYPE OF WELL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS	TYPE OF COMPLETION <input checked="" type="checkbox"/> SINGLE <input type="checkbox"/> MULTIPLE	OTHER PRODUCING WELLS ON LEASE OR UNIT <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS
--	--	--

DATE OF CHANGE 11-1-82	REASON FOR STATUS CHANGE	METHOD OF COMPLETION
---------------------------	--------------------------	----------------------

<input type="checkbox"/> OIL COMPLETION (FIRST FORMATION OIL PRODUCED)	<input type="checkbox"/> RESUMPTION OF PRODUCTION	<input type="checkbox"/> PUMP
<input type="checkbox"/> GAS COMPLETION	<input type="checkbox"/> CESSATION OF PRODUCTION	<input type="checkbox"/> GAS LIFT
<input checked="" type="checkbox"/> RE-COMPLETION	<input checked="" type="checkbox"/> IDLE	<input type="checkbox"/> FLOW
<input type="checkbox"/> INITIAL PRODUCTION	<input type="checkbox"/> PLUGGED & ABANDONED	<input type="checkbox"/> INJECTION
		WATER _____ GAS _____

WELL DATA				PRODUCTION TEST DATA								
PRODUCING ZONE	PERFS. (sl, gp, ip)	PRODUCTION INTERVAL		BOPD	GAS MCFPD	CHOKE /64"	TP	CP	TRAP PRESSURE	GOR OR CONDENSATE YIELD	CUT	API GRAVITY
		FROM	TO									
Miocene	sl	5291'	5900'									

IF CHANGE OF STATUS IS DUE TO CESSATION OF PRODUCTION, WHAT ARE THE PLANS TO RESTORE PRODUCTION, AND ON WHAT DATE IS PRODUCTION EXPECTED TO BE RESTORED?

REASON FOR PLUG & ABANDONMENT

Map No.	Map Letter	Bond No.	Forms
			115 114 123

TOTAL DEPTH: 5900' PLUGGED DEPTH: _____ GROUND ELEVATION: 1170' POINT OF DEPTH MEASUREMENT _____ FT. ABOVE GROUND

SIZE OF CASING (A.P.I.)	DEPTH OF SHOE	TOP OF CASING	WEIGHT OF CASING	NEW OR SECOND HAND	GRADE	SIZE OF HOLE DRILLED	NUMBER OF SACKS CEMENT	W S O DEPTS	CASING PACKER DEPTHS (IF ANY)
11-3/4"	315'		60#		C-45	15-1/8"	247		
7"	5305'		24#		H-40	10-5/8"	500		
Note: 7" also cemented through Halliburton sleeve							200		
5 1/2"	5900'	5260'	15.5#		C-45	10-5/8"			

JUNK:

REMARKS: UNSUCCESSFUL ATTEMPT TO CONVERT TO WASTE WATER INJECTOR

SUBMITTED BY P.M. Shields	TITLE R.O. Callaway, Agent	DATE May 17, 1983
------------------------------	-------------------------------	----------------------

DISTRIBUTION: DISTRICT PRODUCTION MANAGER, DIVISION PRODUCTION MANAGER, DIVISION EXPLORATION MANAGER, PRODUCTION ACCOUNTING, LEASE RECORDS-PRODUCING PROPERTIES, DIVISION OF OIL & GAS (COMPLETIONS, RECOMPLETIONS AND ABANDONMENTS ONLY), CONSERVATION COMMITTEE OF CALIFORNIA OIL PRODUCERS (COMPLETIONS AND RECOMPLETIONS ONLY).

SUBMIT IN DUPLICATE
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

History of Oil or Gas Well

DIVISION OF OIL AND GAS
RECEIVED

JUL 21 1983

Santa Maria, California

Operator Getty Oil Company Field Cat Canyon County Santa Barbara
Well Los Alamos 20 , Sec. 36 , T 9N , R 33W , SB B. & M.
A.P.I. No. 083-00350 Name R.O. Callaway Title Agent
Date May 17 , 19 83 (Person submitting report) (President, Secretary or Agent)

Signature P.M. Shields
for R.O. Callaway, Agent
(805) 643-2154
(Telephone Number)

P.O. Box 811, Ventura, California 93001
(Address)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
10-28-82	Workover hoist moved in and rigged up. Pulled out of hole with tubing. Installed BOPE.
10-29-82	Floated in hole with drill pipe. Pumped hot water down casing. Pulled out of hole. Ran in hole with test cups and tested to 1200'.
10-30-82	Tested to 2950'. Pulled out of hole. Ran 6-1/8" bit and tagged fill at 2963'. Circulated and drilled through plug to 3064'. Tight spot at 2967'. Pulled out of hole. Ran in hole with feeler to 3760'. Floated from 2500'. Pulled out of hole. Ran in hole with swedge to top of liner at 5280'.
10-31-82	Finished running in hole with swedge and found additional bad spots at 4909' and 5215'. Pulled out of hole. Ran in hole with fullbore and bridge plug. Tested and set plug at 2997' and fullbore at 2953'. Tested casing to 500 lbs - OK. Tested between 2953' and 2997'. Pumped away 1 bbl per minute at 500 psi. Unset fullbore and cleaned out 6 ft. of fill on top of bridge plug. Latched onto plug and pulled through bad spot at 2967'. Pulled out but did not have bridge plug. Ran in with retrieving tool.
11-1-82	Cleaned out 10 ft. fill. Latched onto bridge plug and pulled out of hole. Ran in hole with 64 jts of 2-7/8" tubing. Removed BOPE. Rigged down and moved out.

DEPTH: 5900' EFF. DEPTH: 5900'

CASING: 11-3/4" 60# C-45 C. 315'
7" 24# H-40 C. 5305' WSO*
C.P. thru Halliburton cmtg. sleeve at 2525'
618' of 5 1/2" 15.5# liner L. 5900'
Pf: 180M x 2"S, 12R, 6"C 5307'-5900'
TLH: 5282'

*Approved by D.O.G.

TUBING: 1' Fatigue Nipple
1995' 2-7/8" EU 8R tubing (64 jts)
1996' Landed @

RODS: None

REPORT ON PROPOSED OPERATIONS

(805) 925-2686

128
(field code)
21
(area code)
10
(new pool code)
00
(old pool code)

R. O. Callaway, Agent

Getty Oil Company

P. O. Box 811

Ventura, CA 93001

WATER DISPOSAL PROJECT

WEST AREA

MONTEREY ZONE

Santa Maria

September 20, 1982, California

Your _____ proposal to convert to water disposal well "Los Alamos" 20
A.P.I. No. 083-00350, Section 36, T. 9N, R. 33W, S.B. B. & M,
Cat Canyon field, West area, Monterey pool,
Santa Barbara County, dated 7-14-82, received 7-15-82 has been examined in conjunction with records
filed in this office. NOTE: 7" c.p. 2525', holes 380' - 444' (cem. off)

DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT:

1. The general requirements established in letter dated September 20, 1982 shall be made part of this report.
2. Copies of all surveys shall be filed with this division.
3. A step-rate pressure test shall be conducted prior to sustained injection above 1400 psi plus friction flow losses.
4. Injection shall be through tubing on packer set immediately above the zone of injection.
5. Nearby producing Monterey wells and those on Union Oil Company's "Bell" lease shall be monitored for increased water production and/or water cut. Injection shall cease if it causes an adverse increase in water production and/or water cut in wells near the "Bell-Los Alamos" lease line.
6. THIS DIVISION SHALL BE NOTIFIED TO WITNESS all injection-profile surveys referred to in Item 8 of above letter, the first within 3 months after injection has started.
7. THIS DIVISION SHALL BE NOTIFIED TO WITNESS the step rate test if one is determined necessary.

NOTES:

1. An examination of the electric log indicates that the base of freshwater is at 1265' at this location. The freshwater will be protected by 11 3/4" casing cemented from shoe to surface and 7" casing cemented through the shoe at 5305' and ports at 2525'. Also, injection will be through tubing on packer.
2. The water to be injected tests 9425 ppm TDS and is produced from neighboring oil wells.
3. Injection will be into Monterey zone. Strata in the injection interval contain oil and salt water.
4. Approximate surface location of well: From SW cor Sec. 36, 850N 2000E.
5. Injected water might also have some waterflood effect.
6. Please file a history of the work done to land 618' of 5 1/2" liner from 5282' - 5900'. D.O.G. only has records of the original 4 3/4" liner from 5260' - 5900'.

AJK:dv

BLANKET BOND

cc: Department of Water Resources
Water Quality Control Board

M. G. MEFFERD, State Oil and Gas Supervisor

By *John L. Greber*
Deputy Supervisor

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

DIVISION OF OIL AND GAS

REWORK SUPPLEMENTARY NOTICE

DIVISION OF OIL AND GAS
RECEIVED

JUL 15 1982

Santa Maria, California

DIVISION OF OIL AND GAS

Santa Maria Calif.

FOR DIVISION USE ONLY			
BOND	FORMS		EDP WELL FILE
	OGD114	OGD121	
Blanket		7-15-82	

A notice to you dated March 17, 1981, stating the intention to

Abandon Los Alamos 20, API No. 083-00350
(Drill, rework, abandon) (Well name and number)

Sec. 36, T. 9N, R. 33W, SB B. & M., Cat Canyon Field,

Santa Barbara County, should be amended because of changed conditions.

The present condition of the well is as follows:

Total depth 5900'

Complete casing record including plugs and perforations

11-3/4" 60# C. 315'

7" 24# H-40 C. 5305' WSO

Baker Drillable bridge plug 3000'

(Holes in 7" casing - 3475')

640' 618'-5 1/4 15.5# liner L. @ 5900'

Pf: 180M x 2"S x 12R x 6"C (5307'-5900')

5291'

We now propose to convert to Miocene waste water injection.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address P.O. Box 811
(Street)Ventura, CA 93001
(City) (State) (Zip)

Telephone Number (805) 643-2154

GETTY OIL COMPANY

(Name of Operator)

Type of Organization CORPORATION
(Corporation, Partnership, Individual, etc.)By R.O. Callaway, Agent 7-14-82
(Name) (Date)

Signature MC Neuhaus for R.O. Callaway

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RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS
(805) 925-2686
REPORT OF CORRECTION OR CANCELLATION

Santa Maria, California

Mr. R. O. Callaway, Agent
Getty Oil Company
P. O. Box 811
Ventura, CA 93001

April 29, 1982

In accordance with your notice received 4-29-82

the following change pertaining to your well No. "Los Alamos" 20 (083-00350),
Sec. 36, T. 9N, R. 33W, S.B. B. & M., Cat Canyon field,
Santa Barbara County, District No. 3, is being made in our records:

☐ The corrected location is _____

☐ The corrected elevation is _____

☐ Report No. _____, dated _____, has been
corrected as follows: _____

Notice

☒ Your notice to Abandon & Supplementary [^] dated 2-5-80 & 3-17-81,
(Drill, abandon, etc.)
and our report No. P 380-98 & P 381, issued in answer thereto, are hereby cancelled
inasmuch as the work will not be done. If you have a drilling bond on file covering
this notice it will be returned. No request for such return is necessary.

☐ Other: _____

M. G. MEFFERD

~~JOHN R. MATTHEWS, JR.~~
State Oil and Gas Supervisor

By [Signature]
Deputy Supervisor

mjn

cc: Update Center

APR 15 1982

DIVISION OF OIL AND GAS
(805) 925-2686
WELL STATUS INQUIRY

Santa Maria, Calif.

April 13, 1982

Mr. R. O. Callaway,
Getty Oil Company
P. O. Box 811
Ventura, CA 93001

DIVISION OF OIL AND GAS
RECEIVED

APR 29 1982

Santa Maria, California

In a ^{supplementary} notice dated Mar. 17, 19 81, you propose to abandon
well name and No., "Los Alamos" 20 (083-00350)
Sec. 36, T. 9N, R. 33W, S.B.B. & M., Cat Canyon
(Field or County)

Please indicate below conditions or intentions regarding this proposed work and return the completed form to this office within 10 days.

THIS WORK HAS BEEN DONE. If you check this space, please file the required well records on this work in duplicate within 60 days after work was completed.

THIS WORK IS IN PROGRESS AND SHOULD BE COMPLETED ABOUT 19.

THIS WORK HAS NOT BEEN DONE, BUT WE STILL INTEND TO DO THE WORK.
Please give details. and file a supplementary notice to that effect

☒ WE DO NOT INTEND TO DO THIS WORK. Please cancel our notice to ABANDON
MAR 17 19 81.

Signature *R. O. Callaway*

(Bonds on file covering canceled notices will be returned.)

OTHER:

NOTE:

Division 3 of the Public Resources Code states in part:
Section 3203, ...If operations have not commenced within one year of receipt of the notice, the notice will be considered canceled. --- Section 3215, ...Well records shall be filed 60 days after completion or suspension of proposed work. ---

M. G. MEFFERD

State Oil and Gas Supervisor

By *John L. Greubel*

mjn

REPORT ON PROPOSED OPERATIONS

(805) 925-2686

(field code)

(area code)

(new pool code)

(old pool code)

R. O. Callaway, Agent
 Getty Oil Company
 P. O. Box 811
 Ventura, CA 93001

Santa Maria, California
 March 23, 1981

Your supplementary proposal to abandon well "Los Alamos" 20,
 A.P.I. No. 083-00350, Section 36, T. 9N, R. 33W, S.B. B. & M.,
Cat Canyon field, -- area, -- pool,
Santa Barbara County, dated 3-17-81, received 3-23-81 has been examined in conjunction with records
 filed in this office.

DECISION: THE PROPOSAL IS APPROVED PROVIDED:

1. In all other respects the well is to be abandoned in accordance with provisions outlined in report No. P 380-98 dated February 7, 1980.



CANCELLED

AJK:dv
 BLANKET BOND

M. G. MEFFERD, State Oil and Gas Supervisor

By 

Deputy Supervisor

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

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RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED

MAR 23 1981

Santa Maria, California

Supplementary Notice

Santa Maria Calif. March 17 1981

DIVISION OF OIL AND GAS

Santa Maria Calif.

A notice to you dated February 5, 1980, stating the intention to

Abandon

well No. Los Alamos 20

(Drill, deepen, redrill, abandon)

Sec. 36, T. 9N, R. 33W, SB B & M Cat Canyon Field,

Santa Barbara

County, should be amended because of changed conditions.

The present condition of the well is as follows:

Total depth 5900'

Complete casing record including plugs.

11-3/4" 60# C. 315

7" 24# H-40 C. 5305' WSO -

Baker Drillable Bridge Plug 3000'

(Holes in 7" casing - 3475')

4 3/4" 6 1/8" - 5 1/2" 15.5# Liner L. 5900', top 5260' -

Pf: 180M x 2"S x 12R x 6"C (5307'-5900')

Map No.	Map Letter	Bond No.	Forms		
		Blanket	115	114	121
					3-23-81 mja

 CANCELLED

We now propose to complete the work under the procedure given D.O.G.
Approval on 2-7-80.

P.O. Box 811, Ventura, Ca. 93001

GETTY OIL COMPANY

(Address)
(805) 643-2154

(Name of Operator)

By *SPR* R.O. Callaway/Agent

(Telephone No.)

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

22

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

No. P 380-98**REPORT ON PROPOSED OPERATIONS**

(805) 925-2686

128
(field code)
21
(area code)
00
(pool code)

E. F. Gill, Agent
Getty Oil Company
P. O. Box 811
Ventura, CA 93001


Santa Maria, California
February 7, 1980

Your proposal to abandon well "Los Alamos" 20,
A.P.I. No. 083-00350, Section 36, T. 9N, R. 33W, S.B. B. & M.,
Cat Canyon field, West area, -- pool,
Santa Barbara County, dated 2-5-80, received 2-6-80 has been examined in conjunction with records
filed in this office.

NOTE: 4 3/4" ld. 5260' - 5900', perfs. 5291' - 5900'.

DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout-prevention equipment, as per Manual No. MO 7, 1980 edition, equivalent to Division of Oil and Gas Class II 1M, shall be installed and maintained in operating conditions at all times.
2. To prevent movement of other fluids into the well bore, top-hole rotary mud weighing at least 70 lbs. per cu. ft., or a mixture of gel and water having a 10-minute shear strength of 20 or more by Baroid shearometer--approximately 30 sacks per 100 bbl., or 8.5 percent by weight--shall be used to replace any oil or water in the hole and to fill all portions of the hole not plugged with cement.
3. A cement plug shall be placed from at least 5400' to 5160'.
4. THIS DIVISION SHALL BE NOTIFIED:
 - a. TO WITNESS the location and hardness of the cement plug at 5160'.
 - b. TO WITNESS mudding operations.
 - c. TO WITNESS the cement squeeze below the cement retainer at 2500'.
 - d. TO WITNESS the placing and the location and hardness of the cement plug at 1230'.
 - e. TO WITNESS the placing of the cement plug from 500' to the surface.

 **CANCELLED**

Sharon Stettner

*Getty plans on abandonment &
will send notice.*

AJK:dv
BLANKET BOND

M. G. MEFFERD, State Oil and Gas Supervisor

By *[Signature]*

Deputy Supervisor

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

21

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED

FEB 6 1980

Santa Maria, California

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin.

DIVISION OF OIL AND GAS

FOR DIVISION USE ONLY			
CARDS	BOND	FORMS	
		114	121
<input checked="" type="checkbox"/>	Blanket		2-6-80 mjm

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon Well No. 20 Los Alamos, API No. 083-00350, Sec. 36, T. 9N, R. 33W, S.B. B. & M., Cat Canyon Field, Santa Barbara County, commencing work on your approval, 1980.

The present condition of the well is:

Additional data for dry hole (show depths)

- Total depth: 5900'
- Complete casing record, including plugs and perforations:
11-3/4" 60# c 315
7" 24# H-40 c 5305 WSO
Baker Drillable Bridge Plug at 3000'
(Holes in 7" Csg. -3475')
4 3/4" 618" - 5 1/2" 15.5# Liner L. 5900', top @ 5260'
Pf = 180Mx2"Sx12Rx6"C
(5307'-5900')
5291'
- Last produced 9/23/70 1 -0- 3
(Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)
or
- Last injected _____
(Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

5. Oil or gas shows

 CANCELLED

6. Stratigraphic markers:

7. Formation and age at total depth:

8. Base of fresh water sands: 1300' 1080'±

The proposed work is as follows:

- Kill well
- Install BOPE
- Mill out bridge plug at 3000'
- Perforate - 4 holes at 2575'
- Set cement retainer at 2500'
- Squeeze well bore and holes full of Class "G" cement through retainer
- Lay 100' cement plug on top of retainer
- Shoot 4 holes at 1300' (base of fresh water 1300')
- Lay cement plug from 1350' to 590' inside casing
- Squeeze cement through holes until top is at 1230'
- Lay cement plug from 500' to surface
- Cut off casing 6' below ground level, weld steel plate on top of casing, backfill cellar and remove all equipment from location.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address P. O. Box 811
(Street)
Ventura California 93001
(City) (State) (Zip)
Telephone Number 805-643-2154

GETTY OIL COMPANY
(Name of Operator)
By SPF for EF Gill (Agent) 2/5/80
(Name) (Date)
Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

20

DIVISION OF OIL AND GAS
CHECK ST - RECORDS RECEIVED AND WELL STATUS

Company Getty Oil Company Well No. "Los Alamos" 20
API No. 083-00350 Sec. 36, T. 9N, R. 33W, S.B. B.&M.
County Santa Barbara Field Cat Canyon

<u>RECORDS RECEIVED</u>	<u>DATE</u>	<u>STATUS</u>	<u>STATUS</u>
Well Summary (Form OGI00)	<u>3-27-79</u>	Producing - Oil	Water Disposal
History (Form OGI03)	<u>3-27-79</u>	Idle - Oil	Water Flood
Core Record (Form OGI01)		Abandoned - Oil	Steam Flood
Directional Survey		Drilling - Idle	Fire Flood
Sidewall Samples		Abandoned - Dry Hole	Air Injection
Other		Producing - Gas	Gas Injection
Date final records received		Idle - Gas	CO ₂ Injection
Electric logs:		Abandoned - Gas	LPG Injection
		Gas-Open to Oil Zone	Observation
		Water Flood Source	
		DATE <u>1-7-79</u>	
		RECOMPLETED	
		REMARKS <u>Bridge plug + Cem bridge @</u>	
		<u>3000'</u>	

ENGINEER'S CHECK LIST

1. Summary, History, & Core record (dupl.) ☒
2. Electric Log ☒
3. Operator's Name ☒
4. Signature ☒
5. Well Designation ☒
6. Location ☒
7. Elevation ☒
8. Notices ☒
9. "T" Reports ☒
10. Casing Record ☒
11. Plugs ☒
12. Surface Inspection ☒
13. Production ☒
14. E Well on Prod. Dir. Sur. ☒

CLERICAL CHECK LIST

1. Location change (F-OGD165)
2. Elevation change (F-OGD165)
3. Form OGD121
4. Form OGI59 (Final Letter)
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)

1/31/80
Getty/Zulberti
no rec. of cons.

RECORDS NOT APPROVED

Reason: _____

RECORDS APPROVED ✓ PJK

RELEASE BOND

Date Eligible _____

(Use date last needed records were received.)

MAP AND MAP BOOK 310 3/31/79 PJK

Getty Oil Company

CHANGE OF WELL STATUS REPORT

SECTION 36	TOWNSHIP 9N	RANGE 33W	B & M S.B.	LOCATION 4290' S along property line & 990' E at right angles from NW corner Los Alamos ranch
DISTRICT Coastal	AREA Santa Maria	LEASE & WELL Los Alamos 20	FIELD Cat Canyon	
COUNTY AND STATE Santa Barbara, California	OPERATOR Getty Oil Company	GOC FILE NO.	GOC WORKING INT.	

TYPE OF WELL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS	TYPE OF COMPLETION <input checked="" type="checkbox"/> SINGLE <input type="checkbox"/> MULTIPLE	OTHER PRODUCING WELLS ON LEASE OR UNIT <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	<input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS
--	--	---	--

DATE OF CHANGE 1-7-79	REASON FOR STATUS CHANGE	METHOD OF COMPLETION
--------------------------	--------------------------	----------------------

<input type="checkbox"/> OIL COMPLETION (FIRST FORMATION OIL PRODUCED) <input type="checkbox"/> GAS COMPLETION <input checked="" type="checkbox"/> RE-COMPLETION <input type="checkbox"/> INITIAL PRODUCTION	<input type="checkbox"/> RESUMPTION OF PRODUCTION <input type="checkbox"/> CESSATION OF PRODUCTION <input checked="" type="checkbox"/> IDLE <input type="checkbox"/> PLUGGED & ABANDONED	<input type="checkbox"/> PUMP <input type="checkbox"/> GAS LIFT <input type="checkbox"/> FLOW <input type="checkbox"/> INJECTION WATER _____ GAS _____
--	---	--

DIVISION OF OIL AND GAS
RECEIVED
MAR 27 1979
Santa Maria, California

WELL DATA				PRODUCTION TEST DATA								
PRODUCING ZONE	PERFS. (sl,sp,ip)	PRODUCTION INTERVAL FROM	TO	BOPD	GAS MCFPD	CHOKE /64"	TP	CP	TRAP PRESSURE	GOR OR CONDENSATE YIELD	CUT	API GRAVITY
Miocene	sl	5291'	5900'									

IF CHANGE OF STATUS IS DUE TO CESSATION OF PRODUCTION, WHAT ARE THE PLANS TO RESTORE PRODUCTION, AND ON WHAT DATE IS PRODUCTION EXPECTED TO BE RESTORED?

REASON FOR PLUG & ABANDONMENT

Map No.	Map Letter	Bond No.	Forms		
			115	114	113
					3-27-79 27/4/79

TOTAL DEPTH: 5900' PLUGGED DEPTH: 3000' GROUND ELEVATION: 1170' POINT OF DEPTH MEASUREMENT: _____ FT. ABOVE GROUND

SIZE OF CASING (A.P.I.)	DEPTH OF SHOE	TOP OF CASING	WEIGHT OF CASING	NEW OR SECOND HAND	GRADE	SIZE OF HOLE DRILLED	NUMBER OF SACKS CEMENT	W S O DEPTHS	CASING PACKER DEPTHS (IF ANY)
11-3/4"	315'		60#		C-45	15-1/8"	247		
7"	5305'		24#		H-40	10-5/8"	500		
Note: 7" also cemented through Halliburton sleeve							200		
5 1/2" 4 3/4"	5900'	5260'	15.5#		C-45	10-5/8"			

JUNK:
REMARKS: Cemented hole in casing - status not changed

SUBMITTED BY SP Frong	TITLE S. P. Frong Agent	DATE 3-12-79
--------------------------	-------------------------------	-----------------

DISTRIBUTION: DISTRICT PRODUCTION MANAGER, DIVISION PRODUCTION MANAGER, DIVISION EXPLORATION MANAGER, PRODUCTION ACCOUNTING, LEASE RECORDS-PRODUCING PROPERTIES, DIVISION OF OIL & GAS (COMPLETIONS, RECOMPLETIONS AND ABANDONMENTS ONLY), CONSERVATION COMMITTEE OF CALIFORNIA OIL PRODUCERS (COMPLETIONS AND RE-

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Getty Oil Company FIELD Cat Canyon

Well No. Los Alamos 20, Sec. 36, T. 9N, R. 33W, S.B. B. & M.

Date March 12, 1979 Signed S. P. Froning
S. P. Froning

P.O. Box 811, Ventura, Ca. 93001 (643-2154) Title Agent
(Address) (Telephone Number) (President, Secretary or Agent)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date

- 1-3-79 G & O Production hoist moved in and rigged up. Installed Hydril. Stripped on BOP. Pulled out of hole with 102 joints of 2-7/8" tubing. Made up scraper and ran in hole to 3163'.
- 1-4-79 Ran casing scraper to 5282' (top of liner). Pulled out of hole with tubing and scraper. Made up Baker bridge plug, retriever and fullbore. Ran in hole with tubing and set bridge plug at 5250'. Tested bridge plug - okay. Pulled and set bridge plug at 2622'. Tested okay. Pulled and set fullbore at 2480'. Tested bridge plug okay. Annulus would not test. Pulled tubing at 300 ft. increments testing annulus. Located holes between 380' to 444'.
- 1-5-79 Pulled out of hole with tubing and fullbore. Ran in hole with tubing and fullbore to 137' and set. Rigged up B.J. cement service. Pumped 4 sacks sand on bridge plug. Tested annulus to 500 lbs. Established breakdown 5 bbls. per minute at zero lbs. pressure. Mixed and pumped 200 sacks Class "G" cement with 3% CaCl₂. Displaced with 50 cu.ft. water. Broke out B.J. lines. Closed well in. Shut down.
- 1-6-79 Pulled out of hole with fullbore. Made up 6-1/8" bit with two drill collars. Ran in hole with tubing. Tagged top of cement at 326'. Rigged up power swivel. Started drilling cement. Drilled out cement from 326' to 444'. Pressured casing to 200 psi, held okay. Ran in hole and circulated out sand on top of bridge plug. Pulled out of hole with tubing collars and bit. Made up retrieving tool. Ran in hole to top of bridge plug.
- 1-7-79 Circulated over bridge plug, unset and pulled out of hole. Made up Baker drillable bridge plug. Ran in hole with tubing and set drillable bridge plug at 3000'. Pulled out of hole and laid down 106 jts. tubing. Made up bailer dump and 2 jts. tubing on sandline. Spotted two sacks cement at 3000' on top of bridge plug. Pulled out of hole. Ran in hole and landed tubing at 1996'. Cleaned up and moved out.

Depth: 5900' eff. depth 5900'

Casing

11-3/4" 60# C-45 c 315'
7" 24# H-40 c 5305' WSO*
C.P. through Halliburton cmtg.
sleeve at 2525'

618' - 5 1/2" 15.5# liner L 5900'
Pf: 180Mx2"Sx12Rx6"C 5307'-5900'
TLH 5282'

*Approved by D.O.G.

Tubing

1' Fatigue nipple
1995' 2-7/8" EU 8R tubing (64 jts.)
1996' Landed @

Rods

None

DIVISION OF OIL AND GAS

Report on Operations

(805) 925-2686

S. P. Froning, Agent

Getty Oil Company

P. O. Box 811

Ventura, CA 93001

Santa Maria

Calif.

January 31, 1979

Your operations at well "Los Alamos" 20, API No. 083-00350, Sec. 36, T. 9N R. 33W
S.B., B. & M. Cat Canyon Field, in Santa Barbara County, were witnessed
on 1-5-79 by R. Thomas, representative of the supervisor, was
present from 0945 to 1230. There were also present Sandy Sanford - Production
Foreman

Present condition of well: 11 3/4" cem. 315'; 7" cem. 5305' W.S.O., cp. 2525', cem. off
holes 388' - 444'; 4 3/4" ld. 5260' - 5900', perfs. 5291' - 5900'. T.D. 5900'.
Drillable packer @ 3000'.

The operations were performed for the purpose of witnessing the cementing off holes between
388' and 444'.

DECISION: THE CEMENTING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

RT:dv

M. G. MEFFERD

State Oil and Gas Supervisor

By

Deputy Supervisor

John L. Zulberti

**DIVISION OF OIL AND GAS
Cementing/Plugging Memo**

WAP 379-47

Operator Getty Oil Co. Well No. "Los Alamos" 20
 API No. (083-00350) Sec. 36, T. 9N, R. 33W, S 13 B&M
 Field Cat Canyon, County Santa Barbara On Jan 5, 1979
 Mr. R. Thomas, representative of the supervisor was present from 0945 to 1230.
 There were also present Sandy Sanford - Prod Foreman
 Casing record of well: 11 3/4" cem 315; 7" cem 5305 WSO, c.p. 2525, cem. off holes 388'-444';
4 3/4" id 5260'-5900', perfs 5291'-5900'. T.D. 5900'. Drillable packer @ 3000'.

The operations were performed for the purpose of witnessing the cementing off holes
between 388' and 444'.

☒ The ~~plugging~~ cementing operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ _____' is approved.

Hole size: _____" fr. _____' to _____', _____" to _____' & _____" to _____'

Casing				Cemented			Top of Fill		Squeezed	Final	holes
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing	Away	Press.	Perfs.
7"	24	surf	5305						204f 6	700	388-444'

Casing/tubing recovered: _____" shot/cut at _____', _____', _____' pulled fr. _____';
 _____" shot/cut at _____', _____', _____' pulled fr. _____'.

Junk (in hole): _____

Hole fluid (bailed to) at _____'. Witnessed by _____

Mudding	Date	Bbls.	Displaced	Poured	Fill	Engr.

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt/Sample	Date & Time	Engr.

(15)

In attempting to squeeze through holes 388'-444', spr. set full bore packer @ 137' spr. placed 230f³ drillable packer @ 3000';
 class 6 cem across holes and squeezed w/ enough water calculated to put 204f³ of cem into formation.
 Final squeeze pressure 700psi. 1/8/79 Sanford/Thomas. Cem was drilled out 326'-446' and squeeze
 job tested @ 200 psi successfully.
 * Note while squeezing cem. there was good circ. of water out of holes near the wellhead, but no cem. returns.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

No. P 379-36

REPORT ON PROPOSED OPERATIONS

(805) 925-2686

Santa Maria, California

January 31, 1979

S. P. Froning, Agent

Getty Oil Company

P. O. Box 811

Ventura, CA 93001

Your proposal to alter casing in well "Los Alamos" 20
(Name and number)

A.P.I. No. 083-00350, Section 36, T. 9N, R. 33W

S.B. B. & M., Cat Canyon field, Santa Barbara County,

dated 1-16-79, received 1-17-79, has been examined in conjunction

with records filed in this office.

DECISION: THE PROPOSAL COVERING WORK ALREADY COMPLETED IN ACCORDANCE WITH PRIOR AGREEMENT
IS APPROVED.

AJK:dv
BLANKET BOND

M. G. MEFFERD

State Oil and Gas Supervisor

By

Deputy Supervisor

John L. Zulberti

DIVISION OF OIL AND GAS

Notice of Intention to Rework Well

JAN 17 1979

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

Santa Maria, California

FILED AFTER THE FACT

FOR DIVISION USE ONLY		
BOND	OGD114	OGD121
Blanket		1-17-79

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework well No. Los Alamos #20, API No. 083-00350, Sec. 36, T. 9N, R. 33W, S.B. B. & M., Cat Canyon Field, Santa Barbara County.

The present condition of the well is as follows:

- Total depth. 5900'
- Complete casing record, including plugs and perforations:
 - 11 3/4" 60# C-45 c 315'
 - 7" 24# H-40 c 5305' WSO*
 - C.P. thru Halliburton sleeve at 2525'
 - 3/4" 618' - 5 1/2" 15.5# liner L 5900'
 - Pf: 180M, 2"S, 12R, 6"C 5307'-5900'
 - T.L.H. 5282' 5260'

* Approved by D.O.G.

- Present producing zone name Miocene Zone in which well is to be recompleted Miocene
- Present zone pressure - New zone pressure -
- Last produced 11/77 0 181 15
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)
or
- Last injected - - - -
(Date) (Water, B/D) (Gas, Mcf) (Surface pressure, psig.)

The proposed work is as follows: CEMENT HOLE IN CASING

- Run casing scraper to 5282'.
- Test casing to determine location of hole.
- Squeeze cement with Class "G" cement w/3% CaCl₂.
- Drill out cement.
- Leave well idle.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address P.O. Box 811
(Street)
Ventura California 93001
(City) (State) (Zip)
Telephone Number (805) 643-2154

GETTY OIL COMPANY
(Name of Operator)
By S.P. FRONING 1/16/79
S.P. FRONING, Agent (Date)
Type of Organization
(Corporation, Partnership, Individual, etc.)

MEMORANDUM OF TELEPHONE OR PERSONAL CONVERSATION
(Proposed Well Operations)Operator Getty Oil Co. Well No. "Los Alamos" 20Field Cat Canyon Sec. 36 T. 9N R. 33W 8B B&M
personalA telephone conversation was held, concerning above well, with Mr. Dave Bowers
for above operator January 3, 1979, at 10:00 A M.

Details of the conversation were as follows:

Total depth 5900' Plugs —Casing record See historyOil or gas showings —Results of tests —Stratigraphic markers —Geologic age at bottom — Base of fresh water —

Operator proposes the following work:

Water flowing out rathole nearby this well. Operator will pull tubing and rods and go into well to squeeze below BFW, because they feel there has been a breakdown in the cement job. D.O.G. not too sure that analysis is correct. Suggested a similar problem in San Ardo and problem proved to be in another well.

Additional requirements outlined:

Test of W.S.O. to be witnessed by D.O.G. at — By operator at —Plugs to be located by D.O.G. at — By operator at —Notice to be filed immediately (☒) Yes () Not necessary

Other data D.O.G. suggested a static temp survey would be valuable but opr. disagreed. Will notify D.O.G. to witness squeeze when problem is determined.

(Signed) Adelbert D. CollierTitle Assoc. Oil & Gas Engr.

SUBMIT LOG IN DUPLICATE

FILL IN WITH TYPEWRITER. WRITE ON ONE SIDE OF PA NLV

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG OF OIL OR GAS WELL

DIVISION OF OIL & GAS
RECEIVED
JUN - 3 1943
SANTA MARIA, CALIFORNIA

Operator PACIFIC WESTERN OIL CORP. Field Cat Canyon
Well No. Los Alamos #20 Sec. 36, T. 9N, R. 33W, SB B. & M.
4290' Southerly along Property Line and 990' Easterly at Right
Location Angles from NW Corner Los Alamos Ranch. Elevation 1183 D.F.

In compliance with the provisions of Chapter 93, Statutes of 1939, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date _____

Signed _____

(Engineer or Geologist)

(Superintendent)

Title Chief Engineer
(President, Secretary or Agent)

Commenced drilling 2-22-43 Completed drilling 4-27-43 Drilling tools Cable Rotary

Total depth 5900 Plugged depth _____ GEOLOGICAL MARKERS DEPTH

Junk _____

Commenced producing 5-4-43 (date) Flowing/gas lift/pumping
(cross out unnecessary words)

Initial production
May 11, 1943
Production after XX days
May 18, 1943

Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
317	15.3	12%		Pumping	
297	15.3	4.5		"	

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Casing landed in	Number of Sacks of Cement	Depth of Cementing if through perforations
11 3/4"	315		60#		Smls.	C-45	15 1/2"	247	
7"	5305		24#		Elec. W.	H-40	10-5/8"	500	
Note	7" also cemented through Halliburton Sleeve							200	2525
4 3/4"	5900	5260	16#		Smls.	C-45	10-5/8"		

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
4 3/4"	5291 ft.	5900 ft.	180 Mesh x 2"	12	6"	Straight Slot.
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

Make	Model	Cross Section	Cards	Form
not R				127 121
6-5-43				6-5-43 6-3-43

Electrical Log Depths 315-5900

(Attach Copy of Log)

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS

RECEIVED

JUN -3 1943

SANTA MARIA, CALIFORNIA

History of Oil or Gas Well

OPERATOR PACIFIC WESTERN OIL CORP. FIELD CAT CANYON

Well No. LOS ALAMOS #20, Sec. 36, T. 9N, R. 33W, SB B. & M.

Signed _____

Date _____ Title Chief Engineer

(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date	
2-22	Spudded 15½" Rotary Hole
2-23	Drilled 15½" Hole to 315'
	Cemented 11-3/4" casing at 315' with 247 sacks cement and pumped in 30 sacks additional cement around top of 11-3/4".
4-5	Drilled 10-5/8" hole to 5591.
	Cored 9-5/8" hole 5591-5596
	Ran Electrolog. Ran Halliburton hole caliper.
4-6	Took sidewall samples, Homco device at 2620', 2890', 3005', 3190', 3470', 3670', 3675'.
4-19	Drilled 10-5/8" hole to 5893
4-20	Cored 10-5/8" hole to 5900', total depth
	Ran Electrolog.
	Cemented 7" casing at 5305' with 500 sacks at shoe and 200 sacks through Halliburton sleeve at 2525'.
4-23	Found top of cement 2475. Drilled out to 2525'.
	Ran Johnston Tester and found sleeve leaking at 2525'.
4-25	Squeezed 30 sacks cement at 1800# pressure through Halliburton cement retainer set at 2493'.

200	2525
1.1	600
220	1925
11 drilled	calc Tot
209	
2-87/600	

10

SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

DIVISION OF OIL & GAS
RECEIVED
JUN - 3 1943
SANTA MARIA, CALIFORNIA

OPERATOR _____ FIELD _____

Well No. _____, Sec. _____, T. _____, R. _____, B. & M. _____

Signed *[Signature]*

Date _____ Title _____

(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date

4-26 Ran Johnston Tester at 2500'. Water shut off OK by Division of Oil and Gas.
Found top of cement at 5218, Drilled out to 5310.
Ran Johnston Tester with packer at 5266'. Water shut off OK by Division of Oil and Gas.

4-27 Cleaned out 5900', total depth.
Landed 633' of 4-3/4" liner, including 609' of 180 Mesh perf. at 5898. Top Liner Hanger at 5260'.

4-29 Ran 3" tubing to 5305. Connected up Xmas Tree and started swabbing.

4-30 Swabbing -fluid level 1500'

5-1 Swabbing -fluid level 1500'

5-4 Pulled tubing, ran tubing and rods, and rigged pumping unit.
Pumping to sump 6 PM May 4, 1943.

Map	Model	Cross Section	Cards	Form
4-2				247 121
maple				6-3-43 6-3-43
6-6-43				

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
JUN - 3 1943
SANTA MARIA, CALIFORNIA

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator PACIFIC WESTERN OIL CORPORATION Field CAT CANYON

Well No. LOS ALAMOS #20 Sec. 36, T. 9N, R. 33W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	307				Sand and Gravel
307	415				Sand
415	1635				Sand and Shale
1635	1716				Sand
1716	1894				Sand and Shale
1894	2067				Sand
2067	2348				Sand and Shale
2348	2461				Sand
2461	3915				Sand and Shale
3915	4035				Sand
4035	4086				Sand and Shale
4086	4356				Sand
4356	4496				Sand and Shale
4496	5591				Hard Shale
5591	5596	5'	Cored	3'	Chert, with oil in fractures, 20° dip.
5596	5890		Drilled		Hard Shale
5890	5900	10'	Cored	3'	Chert, with oil in fractures, 25° dip.
Side Wall Samples					
2620	Fine silty sand, spots of oil				
2890	" "	"	"	"	"
3005	" "	"	"	"	"
3190	Fine gray sand, possibly wet				
3400	" "	"	"	"	"
3470	" "	"	"	"	"
3670	" "	"	"	"	"
3765	" "	"	"	"	"

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off
(FORMATION TESTER)

No. T 3-2116

Santa Maria, Calif. April 27, 19 43

Mr. Allen A. Anderson,

Goleta, Calif.

Agent for Pacific Western Oil Corporation

DEAR SIR:

Your well No. "Los Alamos" 20, Sec. 36, T. 9 N., R. 33 W., S. B. B. & M. Cat Canyon Field, in Santa Barbara County, was tested for water shut-off on April 26, 1943. Mr. K. R. Evans, Engineer, *, designated by the supervisor, was present as prescribed in Sec. 3222 and 3223, Ch. 93, Stat. 1939; there were also present O. M. Evans, General Superintendent, and O. O. Dennis, driller

Shut-off data: 7 in. 24 lb. casing was cemented at 5305 ft. on April 23, 1943 in 10-5/8" rotary hole with 500 sacks of cement of which 13 sacks was left in casing. Casing record of well: 11-3/4" cem. 315'; 7" as above and cemented through cementing sleeve at 2525' with 330 sacks.

Reported total depth 5900 ft. Bridged with cement from 5310 ft. to 5325 ft. Cleaned out to 5305 ft. for this test. A pressure of 1750 lb. was applied to the inside of casing for 30 min. without loss after cleaning out to 5235 ft. A Johnston tester was run into the hole on 2-1/2 in. drill pipe, with - ft. of water cushion, and packer set at 5266 ft. with tailpiece to 5285 ft. Tester valve, with 1/2" bean, was opened at 9:00 p.m. and remained open for - hr. and 30 min. During this interval there was a light decreasing blow for the duration of the test.

* Union Oil Company of California

MR. O. M. EVANS REPORTED THE FOLLOWING:

1. The space between the 2-1/2" drill pipe and the 7" casing was filled with mud fluid and remained in that condition during the test, demonstrating that the packer prevented any migration of fluid between drill pipe and casing.

MR. K. R. EVANS NOTED THE FOLLOWING:

1. When the drill pipe was pulled out, approximately 3650' of fluid was found in the drill pipe, equivalent to 11.7 bbl.
2. The fluid consisted of gas-cut mud and oil. A sample of the fluid tested 92 grains of salt per gallon.
3. The pressure chart indicated that the valve was open during the entire test.
4. The bottom hole temperature was 163 degrees.

THE SHUT-OFF IS APPROVED.

This work was not witnessed by a member of this Division for the reason that no inspector was available, but was witnessed as noted above and the above information was furnished by Mr. K. R. Evans, Engineer for Union Oil Company of California.

CC - Mr. W. N. Cragdock

FILED	INDEXED	SEARCHED	SERIALIZED
3120 7-41 12,500 STATE PRINTING OFFICE			

R. D. BUSH, State Oil and Gas Supervisor

By *[Signature]*, Deputy

500 SK
-13
487
1.1 per Halliburton 1945
536 5 5503
2.87 1534
1538 3965' ± toe

Gibson-Drexler Building
Santa Maria, California
April 14, 1943

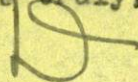
Mr. W. N. Craddock, Chief Engineer,
Pacific Western Oil Corporation,
417 South Hill Street,
Los Angeles, California.

Dear Sir:

In reply to your letter of April 13, 1943, a check of the location of your well No. "Los Alamos" 20, Sec. 1, T. 8 N., R. 33 W., S. B. B. & M., Cat Canyon field, shows that the correct location is in Sec. 36, T. 9 N., R. 33 W., S. B. B. & M., We have corrected our records accordingly.

I note that you are sending a rider for driller's bond to correct the error in location.

Yours truly,



Deputy Supervisor.

SGD:OM
CC: Mr. R. D. Bush (2)

Pacific Western Oil Corporation

ADDRESS ALL CORRESPONDENCE
DIRECT TO THE COMPANY

SUBWAY TERMINAL BUILDING
417 SOUTH HILL STREET

Los Angeles.

DIVISION OF OIL & GAS
RECEIVED

APR 14 1943

SANTA MARIA, CALIFORNIA

April 13, 1943

Mr. S. G. Dolman
Division of Oil & Gas,
Santa Maria, California

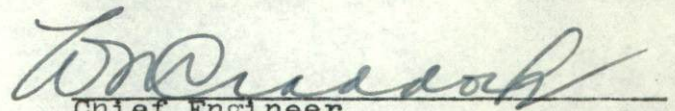
Dear Sir:

Will you please correct the location of Los Alamos No. 20. This well is in Sec. 36, T. 9N, R. 33W, SBB&M. It has been shown on our Division of Oil and Gas reports as being in Sec. 1, T. 8N, R. 33W, SBB&M which is incorrect.

We are procuring a rider to attach to the drilling bond and will forward same to you when received.

Very truly yours,

PACIFIC WESTERN OIL CORPORATION


Chief Engineer

WNC/r

COUNTY OF SANTA BARBARA

STATE OF CALIFORNIA

Special Report on Oil Operations Witnessed

SURFACE CEMENTING

No. 363

Santa Maria

Calif., February 25, 1943

Mr. Allen A. Anderson

Goleta,

California

DIVISION OF OIL & GAS

RECEIVED

FEB 27 1943

Agent for Pacific Western Oil Corporation

SANTA MARIA, CALIFORNIA

Dear Sir:

Operations at your well No. "Los Alamos" 20 Sec. ³⁰ 1, T. ² 8 N., R. 33 W., S.B.B. & M.

Cat Canyon Oil

Field, in Santa Barbara

County, were witnessed by

C. E. Winter

, representative of the County,

on February 23, 1943. There was also present Hugh Smith, Drilling Superintendent

Casing Record Set and cemented 315' of 11-5/4" OD 60 lb. new Screw Joint casing.

The operations were performed for the purpose of Setting and cementing surface casing.

and the data and conclusions are as follows:

1. 2:20 P.M. to 5:05 P.M. ran casing.
2. Circulated water for 5 minutes
3. 5:12 P.M. to 5:24 P.M., 250 sax of cement were pumped into casing by Halliburton Cementing Company.
4. 5:27 P.M. to 5:35 P.M. cement was displaced with 204 cu. ft. of mud fluid. No return.
5. 8:30 P.M., top of cement was located at 33'.
6. 30 sax more of cement were pumped in from the top, bringing cement to surface.

Oral approval of cementing procedure is hereby confirmed.

SANTA BARBARA COUNTY PLANNING COMMISSION

WALLACE C. PENFIELD, Secretary,

By

Inspector.

4

ded 2-22-43
Test 2-23-43
emented 2-23-43

502-3

COUNTY OF SANTA BARBARA

STATE OF CALIFORNIA

Special Report on Oil Operations Witnessed

MUD TEST

No. 363

Santa Maria

Calif. February 25 19 43

Mr. Allen A. Anderson

DIVISION OF OIL & GAS

RECEIVED

FEB 27 1943

Goleta, California

SANTA MARIA, CALIFORNIA

Agent for Pacific Western Oil Corporation

Dear Sir:

Operations at your well No. "Los Alamos" 20 Sec. 36 T. 9 N., R. 33 W., S.B.B. & M.

Cat Canyon Oil Field, in Santa Barbara County, were witnessed by

C. E. Winter, representative of the County,

on February 23, 19 43. There was also present Hugh Smith, Drilling Superintendent

Casing Record None set prior to mud test

The operations were performed for the purpose of demonstrating that the formation was satisfactorily mudded from 0' to 315'.

and the data and conclusions are as follows:

Mr. Smith reported a 15 $\frac{1}{2}$ " rotary hole drilled 315' below the derrick floor.

The Inspector noted:

1. Mud weight was 81 lbs. per cu. ft.
2. 10:05 A.M. test was taken for one hour and showed mud loss to be 4 Bbls. per hour.

Oral approval given to set and cement 315' of 11-3/4" OD 60 lb. casing is hereby confirmed.

SANTA BARBARA COUNTY PLANNING COMMISSION

WALLACE C. PENFIELD, Secretary,

By Callahan Inspector.

3

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P. 3-3170

Santa Maria, Calif. February 10, 1943

Mr. Allen A. Anderson,

Goleta, Calif.

Agent for Pacific Western Oil Corporation

DEAR SIR:

Your proposal to drill Well No. "Los Alamos" 20,
Section 1 36 9, T. 8 N., R. 33 W., S.B.B. & M., Cat Canyon Field, Santa Barbara County,
dated Feb. 5, 1943, received Feb. 10, 1943, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES:

"The elevation of the ground above sea level is 1170 ¹¹⁸³ feet.
The well is 4290 feet Southerly along property line and 990 feet Easterly
at right angles from Northwest corner of ranch
Lease consists of approximately 4,000 acres.
We estimate that the first productive oil or gas sand should be encountered
at a depth of about 5250 feet.
Well is to be drilled with rotary tools."

PROPOSAL:

"We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Csg., In.	Weight, Lb. Per Foot	Grade and Type	Depth	Landed or Cemented
11-3/4"	60#	C-45-T & C	300	Cemented
7"	26#	J-55 - T & C	5250	Cemented (cementing sleeve 2700')
5" Liner (perf.)	15#	C-45 - T & C	5800	Landed

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Mud fluid of not less than 70 lb. per cubic foot shall be used in the drilling of the well and the column of mud fluid shall be maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blow-out prevention equipment shall be provided and ready for operation at all times.
3. The formations to be left back of the 11-3/4" and 7" casings shall be mudded in a satisfactory manner.
4. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
A test of the 7" shut-off.

Bond No. 4616411.

CC - Mr. W. N. Craddock
- Mr. W. C. Penfield
- Mr. Harry Neel

R. D. BUSH

State Oil and Gas Supervisor

By

Deputy

Map	Model	Cross Section	Cards	Notes
Map #2				115 121
2-13-43		1500		2-10-43

2

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
FEB 10 1943
SANTA MARIA, CALIFORNIA

083-00350

Notice of Intention to Drill New Well

This notice must be given and surety bond filed before drilling begins

Los Angeles Calif. February 5, 1943

DIVISION OF OIL AND GAS

Santa Maria, Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of drilling well No. LOS ALAMOS #20, Sec. 1, T. 8 N., R. 33 W., S.B. B. & M., Cat Canyon Field, Santa Barbara County.

Lease consists of approximately 4,000 acres.

The well is 4290 feet Southerly along property line, and 990 feet Easterly at right angles from Northwest corner of ranch (Give location in distance from section corners or other corners of legal subdivision)

The elevation of the drill floor above sea level is 1170 ± feet.

We estimate that the first productive oil or gas sand should be encountered at a depth of about 5250 feet.

We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing, Inches	Weight, Lb. Per Foot	Grade and Type	Depth	Landed or Cemented
11-3/4"	60#	C-45-T & C	300	Cemented
7"	26#	J-55 - T & C	5250	Cemented (cementing sleeve 2700')
5" Liner (perf.)	15#	C-45 - T & C	5800	Landed

Well is to be drilled with rotary tools.

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing.

Address 1060 Subway Terminal Building

PACIFIC WESTERN OIL CORPORATION

(Name of Operator)

Telephone number MUTual 3271

By [Signature] Vice President

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

Map	Model	Cross Section	Cards	Forms
114		1500	✓	121
2-13-43				2-10-43